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BCHE(1E8) Mouse mAb

Catalog # AP98238

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P06276
Other Accession	P06276
Reactivity	Rat
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	68418
Physical State	Liquid
Immunogen	Human BCHE native protein purified
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the type-B carboxylesterase/lipase family.
SUBUNIT	Homotetramer; disulfide-linked. Dimer of dimers.
DISEASE	Butyrylcholinesterase deficiency (BChE deficiency) [MIM:177400]: Metabolic disorder characterized by prolonged apnoea after the use of certain anesthetic drugs, including the muscle relaxants succinylcholine or mivacurium and other ester local anesthetics. The duration of the prolonged apnoea varies significantly depending on the extent of the enzyme deficiency. BChE deficiency is a multifactorial disorder. The hereditary condition is transmitted as an autosomal recessive trait. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Mutant alleles at the BCHE locus are responsible for suxamethonium sensitivity. Homozygous persons sustain prolonged apnea after administration of the muscle relaxant suxamethonium in connection with surgical anesthesia. The activity of pseudocholinesterase in the serum is low and its substrate behavior is atypical. In the absence of the relaxant, the homozygote is at no known disadvantage. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	590
Other Names	BCHED; CHE1; CHE2; E1; CHLE_HUMAN; BCHE; Acylcholine acylhydrolase; Butyrylcholine esterase; Choline esterase II; Pseudocholinesterase; 3.1.1.8; butyrylcholinesterase; cholinesterase 1; cholinesterase (serum) 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	BCHE
Synonyms	CHE1
Function	Esterase with broad substrate specificity. Contributes to the inactivation of the neurotransmitter acetylcholine. Can degrade neurotoxic organophosphate esters.
Cellular Location	Secreted
Tissue Location	Detected in blood plasma (at protein level). Present in most cells except erythrocytes

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.